Learning to Fly: The Wright Brother's Adventure			
2000 Mathematics			
Academic Standards			
Indiana Mathematics			
Grade 6			
Activity/Lesson	**State**	**Standards**	
Wright Brothers: 1900 Glider	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
Wright Brothers: 1901 Glider	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
Wright Brothers: 1902 Glider	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
Wright Brothers: 1903 Flyer	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
New Data	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
1902: Success at Last	IN	MA.6.6.1.4	Convert between any two representations of numbers (fractions, decimals, and percents) without the use of a calculator.
1902: Success at Last	IN	MA.6.6.2.8	Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips.
1902: Success at Last	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
1903: Powered Flight	IN	MA.6.6.2.2	Multiply and divide positive and negative integers.
1903: Powered Flight	IN	MA.6.6.5.1	Select and apply appropriate standard units and tools to measure length, area, volume, weight, time, temperature, and the size of angles.
1903: Powered Flight	IN	MA.6.6.7.7	Select and apply appropriate methods for estimating results of rational-number computations.
1903: Powered Flight	IN	MA.6.6.7.8	Use graphing to estimate solutions and check the estimates with analytic approaches.
Learning to Fly: The Wright Brother's Adventure			
2000 Mathematics			
Academic Standards			

Indiana Mathematics			
Grade 7			
Activity/Lesson	**State**	**Standards**	
Wright Brothers: 1900 Glider	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
Wright Brothers: 1901 Glider	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
Wright Brothers: 1902 Glider	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
Wright Brothers: 1903 Flyer	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
1901: The First Improvement	IN	MA.7.7.5.3	Read and create drawings made to scale, construct scale models, and solve problems related to scale.
New Data	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
1902: Success at Last	IN	MA.7.7.2.2	Calculate the percentage increase and decrease of a quantity.
1902: Success at Last	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
1903: Powered Flight	IN	MA.7.7.2.1	Solve addition, subtraction, multiplication, and division problems that use integers, fractions, decimals, and combinations of the four operations.
1903: Powered Flight	IN	MA.7.7.2.4	Use estimation to decide whether answers are reasonable in problems involving fractions and decimals.
1903: Powered Flight	IN	MA.7.7.3.9	Identify functions as linear or nonlinear and examine their characteristics in tables, graphs, and equations.
1903: Powered Flight	IN	MA.7.7.5.1	Compare lengths, areas, volumes, weights, capacities, times, and temperatures within measurement systems.
1903: Powered Flight	IN	MA.7.7.5.5	Estimate and compute the area of more complex or irregular two-dimensional shapes by dividing them into more basic shapes.
1903: Powered Flight	IN	MA.7.7.7.8	Select and apply appropriate methods for estimating results of rational-number computations.
1903: Powered Flight	IN	MA.7.7.7.9	Use graphing to estimate solutions and check the estimates with analytic approaches.
Learning to Fly: The Wright Brother's Adventure			
2000 Mathematics			

Academic Standards			
Indiana Mathematics			
Grade 8			
Activity/Lesson	**State**	**Standards**	
Wright Brothers: 1900 Glider	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
Wright Brothers: 1901 Glider	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
Wright Brothers: 1902 Glider	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
Wright Brothers: 1903 Flyer	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
New Data	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
1902: Success at Last	IN	MA.8.8.2.4	Use mental arithmetic to compute with common fractions, decimals, powers, and percents.
1902: Success at Last	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
1903: Powered Flight	IN	MA.8.8.2.1	Add, subtract, multiply, and divide rational numbers (integers, fractions, and terminating decimals) in multi-step problems.
1903: Powered Flight	IN	MA.8.8.3.8	Demonstrate an understanding of the relationships among tables, equations, verbal expressions, and graphs of linear functions.
1903: Powered Flight	IN	MA.8.8.5.1	Convert common measurements for length, area, volume, weight, capacity, and time to equivalent measurements within the same system.
1903: Powered Flight	IN	MA.8.8.5.2	Solve simple problems involving rates and derived measurements for attributes such as velocity and density.
1903: Powered Flight	IN	MA.8.8.7.8	Select and apply appropriate methods for estimating results of rational-number computations.
1903: Powered Flight	IN	MA.8.8.7.9	Use graphing to estimate solutions and check the estimates with analytic approaches.

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2000 Mathematics			
Academic Standards			
Indiana Mathematics			
Grades 9-12 (Algebra I)			
Activity/Lesson	**State**	**Standards**	
1903: Powered Flight	IN	MA.9-12.A1.3.1	Sketch a reasonable graph for a given relationship.
1903: Powered Flight	IN	MA.9-12.A1.5.1	Use a graph to estimate the solution of a pair of linear equations in two variables.
1903: Powered Flight	IN	MA.9-12.A1.9.1	Use a variety of problem solving strategies, such as drawing a diagram, making a chart, guess-and-check, solving a simpler problem, writing an equation, and working backwards.
Learning to Fly: The Wright Brother's Adventure			
2000 Mathematics			
Academic Standards			
Indiana Mathematics			
Grades 9-12 (Algebra II)			
Activity/Lesson	**State**	**Standards**	
1900: Kitty Hawks	IN	MA.9-12.A2.10.1	Use a variety of problem-solving strategies, such as drawing a diagram, guess-and-check, solving a simpler problem, writing an equation, and working backwards.